IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A mesh screen apparatus used in subterranean wells, comprising:

a mesh medium having interlocking layers of mesh material, the interlocking layers being connected by pressing a plurality of fibers extending from an individual interlocking layer into the next adjacent interlocking layer; and

a base pipe having openings in its sidewall, and onto which the mesh medium is mounted such that the mesh medium covers the openings.

- 2. (Original) The mesh screen apparatus of claim 1 in which the mesh material comprises fiber strands.
- 3. (Original) The mesh screen apparatus of claim 2 in which the fiber strands are arranged in orthogonal layers.
- 4. (Original) The mesh screen apparatus of claim 2 in which the fiber strands are metallic.
- 5. (Original) The mesh screen apparatus of claim 1 in which the mesh medium is a tubular.
- 6. (Original) The mesh screen apparatus of claim 5 in which the tubular is seamless.
- 7. (Original) The mesh screen apparatus of claim 1 in which the mesh medium has a porosity.
- 8. (Original) The mesh screen apparatus of claim 7 in which the mesh material comprises fiber strands and the porosity is determined by the thickness of the fiber strands.

- 9. (Original) The mesh screen apparatus of claim 7 in which the mesh material comprises fiber strands of variable diameter and the porosity is variable across the mesh medium.
- 10. (Original) The mesh screen apparatus of claim 7 in which the mesh material comprises fiber strands and the porosity is determined by the diameter and number of openings in the mesh medium.
- 11. (Original) The mesh screen apparatus of claim 1 in which the mesh medium has variable thickness.
- 12. (Original) The mesh screen apparatus of claim 1 in which the mesh medium has a standard mesh incorporated as one of the layers.
- 13. (Original) The mesh screen apparatus of claim 1 in which the mesh medium covers only a portion of the base pipe.
- 14. (Withdrawn) A method to make a mesh screen apparatus used in subterranean wells, comprising:

providing layers of intermeshing fibers;

stacking the layers;

interlocking the layers; and

placing the interlocked layers onto a base pipe having openings therethrough.

- 15. (Withdrawn) The method of claim 14 further comprising forming the interlocked layers into a tubular.
- 16. (Withdrawn) The method of claim 15 further comprising sliding the tubular onto the base pipe.
- 17. (Withdrawn) The method of claim 14 further comprising using needles having prongs to interlock the layers.

- 18. (Withdrawn) The method of claim 14 further comprising incorporating a standard mesh as one of the layers.
- 19. (Withdrawn) The method of claim 14 further comprising using needles to produce openings through the interlocked layers.
- 20. (Withdrawn) The method of claim 14 further comprising attaching a structure to the base pipe and securing the interlocking layers to only a potion of the base pipe.
- 21. (Previously presented) A mesh screen apparatus used in subterranean wells, comprising:

a mesh medium having interlocking layers of mesh material; and

a piece of equipment having at least one intelligent completion device which the mesh medium at least partially encloses such that the mesh medium prevents infiltration of particulates into the equipment.